

20080806.ba v04_n195.bam.20080806

>From ???@??? Wed Aug 6 14:16:44 2008 -0500
Date: Wed, 6 Aug 2008 14:16:02 CST
From: Old Tube Radios <boatanchors@theporch.com>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: BOATANCHORS digest 4195
Message-Id: <20080806201236.25A2710B134@srvr1.theporch.com>

BOATANCHORS Digest 4195

Topics covered in this issue include:

- 1) Re: R-390A audio mod ID
by stuck in 50s <polepeeg@aa4rm.ba-watch.org>
- 2) Re: R-390A audio mod ID
by Scott Robinson <spr@earthlink.net>
- 3) Re: R-390A audio mod ID
by Steve Berg <wa9jml@tbc.net>
- 4) Re: R-390A audio mod ID
by W7QH0@aol.com
- 5) Re: R-390A audio mod ID
by WA5CAB@cs.com
- 6) Re: R-390A audio mod ID
by Scott Robinson <spr@earthlink.net>
- 7) Re: R-390A audio mod ID
by Scott Robinson <spr@earthlink.net>
- 8) March 1950 "Electronics" magazine?
by "Nick England" <nick@3rdtech.com>
- 9) molded mica transmitting cap needed
by "Nick England" <nick@3rdtech.com>
- 10) Re: molded mica transmitting cap needed
by "Al Parker" <anchor@ec.rr.com>
- 11) Looking for a Heathkit DX-60
by "Art Lebermann" <artleb@earthlink.net>
- 12) Need some info on Collins Antenna tuner..
by "Sandy" <ebjr37@charter.net>
- 13) US Heavy Bombers
by "Mikhael Brown" <mikhael@brown.org>
- 14) Re: US Heavy Bombers
by GDM <lgdm3@charter.net>
- 15) US Heavy Bombers
by "Mikhael Brown" <mikhael@brown.org>
- 16) Collins Oscillator
by "Wilson Lamb" <infomet@embarqmail.com>
- 17) Shelby hamfest -boatanchor central
by "Nick England" <nick@3rdtech.com>
- 18) Re: Shelby hamfest -boatanchor central - Anybody from Southern

NJ going?

by John Dilks K2TQN <oldradio@worldnet.att.net>

19) Re: Collins Oscillator

by "Don Reaves W5OR WD2XSH/15" <donreaves@gmail.com>

20) Fwd: help

by "Jose V. Gavila" <eb5agv@amsat.org>

Date: Fri, 1 Aug 2008 08:40:59 -0400 (EDT)
From: stuck in 50s <polepeeg@aa4rm.ba-watch.org>
Message-Id: <200808011240.m71Cexng018418@fracas.netboobie.org>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: R-390A audio mod ID

Arden writes:

> Who needs 10 watts of audio power for a receiver?

Well clearly Ralph does big buck-o

Another way is to take 'det output' & feed the powered unit in a wide-range computer speaker system. I know, I know. Too easy & hasn't the soundstage of p-p 6AQ5s

But good job Ralph

m aka aa4rm

Mime-Version: 1.0
Message-Id: <p06240801c4b8dcd78c12@[192.168.1.2]>
Date: Fri, 1 Aug 2008 08:34:16 -0700
To: Old Tube Radios <boatanchors@theporch.com>
From: Scott Robinson <spr@earthlink.net>
Subject: Re: R-390A audio mod ID
Content-Type: text/plain; charset="us-ascii" ; format="flowed"

Hi Arden,

Well, a single ended pentode sans feedback is about the worst way to drive a speaker that tubes can provide. The distortion is high, which reduces intelligibility, and the output impedance is high, which make the speaker behave badly.

The circuit your describe with feedback judiciously added would be OK, if nto very high powered.

Regards,

Scott

At 9:31 PM -0700 7/31/08, Arden Allen wrote:

> >The audio module has been modified - a pair of 6AQ5s has been added,
>with a

>> new output xformer for 8 ohm output.

>

>I have thought that the two 6AK6's, tied in parallel would be sufficient to
>drive a 5000 ohm output transformer primary. The line output can be driven
>by the 12AU7. Who needs 10 watts of audio power for a receiver?

>

>Arden Allen

>KB6NAX

Message-ID: <48933021.7090307@tbc.net>

Date: Fri, 01 Aug 2008 10:47:45 -0500

From: Steve Berg <wa9jml@tbc.net>

MIME-Version: 1.0

To: Old Tube Radios <boatanchors@theporch.com>

Subject: Re: R-390A audio mod ID

Content-Type: text/plain; charset=ISO-8859-1; format=flowed

Content-Transfer-Encoding: 7bit

I suspect that somewhere along the line a National HRO aficionado,
judiciously modified this receiver. Mine used a pair of 6V6's and it
sounded good enough that I used it for a monaural hi fi back in my early
student days.

73,

Steve WA9JML

From: W7QH0@aol.com

Message-ID: <c5a.3851353a.35c48a98@aol.com>

Date: Fri, 1 Aug 2008 11:49:44 EDT

Subject: Re: R-390A audio mod ID

To: Old Tube Radios <boatanchors@theporch.com>

MIME-Version: 1.0

Content-Type: multipart/alternative;

boundary="part1_c5a.3851353a.35c48a98_boundary"

--part1_c5a.3851353a.35c48a98_boundary

Content-Type: text/plain; charset="ISO-8859-1"

Content-Transfer-Encoding: quoted-printable

In a message dated 8/1/08 8:35:18 AM, spr@earthlink.net writes:

> Well, a single ended pentode sans feedback is about the worst way to
> drive a speaker that tubes can provide.=A0 The distortion is high,
> which reduces intelligibility, and the output impedance is high,
> which make the speaker behave badly.
>=20

Hmmm... Configuration can't be all THAT bad considering it's very=20
widespread use. Found in just about every receiver I have (30+) from Colli=
ns to 30's=20
Hallicrafters and military. Never noticed any particular intelligibility or=20
distortion problems.....

Dennis D. W7QH0
Glendale, CA

Get fantasy football with free live scoring. Sign up for=20
FanHouse Fantasy Football today.
=20

(<http://www.fanhouse.com/fantasyaffair?ncid=3Daolspr00050000000020>)

--part1_c5a.3851353a.35c48a98_boundary
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

```
* * * * *
*      ---REMAINDER OF MESSAGE TRUNCATED---      *
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*      If your postings display this message your mail program *
*      is not set to send PLAIN TEXT ONLY and needs adjusting *
* * * * *
```

--part1_c5a.3851353a.35c48a98_boundary--

From: WA5CAB@cs.com
Message-ID: <d08.3e25ab0f.35c48d68@cs.com>
Date: Fri, 1 Aug 2008 12:01:44 EDT

Subject: Re: R-390A audio mod ID
To: Old Tube Radios <boatanchors@theporch.com>
MIME-Version: 1.0
Content-Type: multipart/alternative;
boundary="part1_d08.3e25ab0f.35c48d68_boundary"

--part1_d08.3e25ab0f.35c48d68_boundary
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

And besides that, the output impedance is whatever you or the designer choose to make it. Has nothing to do with single-ended versus push-pull, pentode versus beam-tetrode versus triode, etc.. Certainly, if you hook a 4 ohm VC speaker up to a receiver with 4000 or 600 ohm output you aren't going to like the results. It doesn't matter whether the line is driven by a small single-ended pentode or push-pull 304-TL's..

In a message dated 8/1/2008 10:50:34 AM Central Daylight Time, W7QH0@aol.com writes:

> >Well, a single ended pentode sans feedback is about the worst way to
> >drive a speaker that tubes can provide. The distortion is high,
> >which reduces intelligibility, and the output impedance is high,
> >which make the speaker behave badly.
> >
>
> Hmmm... Configuration can't be all THAT bad considering it's very
> widespread use. Found in just about every receiver I have (30+) from
> Collins to 30's
> Hallicrafters and military. Never noticed any particular intelligibility or
> distortion problems.....
>

Robert Downs - Houston
wa5cab dot com (Web Store)
MVPA 9480

--part1_d08.3e25ab0f.35c48d68_boundary
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

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* is not set to send PLAIN TEXT ONLY and needs adjusting *

* * * * *

--part1_d08.3e25ab0f.35c48d68_boundary--

Mime-Version: 1.0

Message-Id: <p06240803c4b8f1034681@[192.168.1.2]>

Date: Fri, 1 Aug 2008 10:05:58 -0700

To: Old Tube Radios <boatanchors@theporch.com>

From: Scott Robinson <spr@earthlink.net>

Subject: Re: R-390A audio mod ID

Content-Type: text/plain; charset="us-ascii" ; format="flowed"

Hi Dennis,

Well, the chief virtue of a single pentode output is middling efficiency (as tube amps go) and low cost. This kind of amp works well enough if you're not fussy, and, as I said, it's low in cost.

It has the difficulties I mention: high distortion, (in particular it generates high order odd harmonics, which are very noticeable), and a very high output impedance, which a) leaves the speaker bass resonance undamped and b) causes a disagreeable high frequency boost as the speaker impedance rises with increasing frequency. The cap from plate to ground or to B+ of the output stage is to compensate for the last mentioned problem.

I am **not** an audiophoole. I do pro audio equipment design for a living and have been thinking about this stuff since I was a teen-ager in the 1950s. I'm not suggesting that communications receivers need hi-fi audio, just that audio designs that addresses the problems I mention above will make the radio better. If the R-390A used a single 6AQ5, feedback would sort it out pretty well, but the 6AK6 makes less than a watt and you'll likely be in clipping too often.

My '390 is still stock...and ain't working. I think I'll fix the 'ain't working' part first...

Regards,

Scott

At 11:49 AM -0400 8/1/08, W7QH0@aol.com wrote:

>In a message dated 8/1/08 8:35:18 AM, spr@earthlink.net writes:

>

>>Well, a single ended pentode sans feedback is about the worst way to
>>drive a speaker that tubes can provide. The distortion is high,

>>which reduces intelligibility, and the output impedance is high,
>>which make the speaker behave badly.
>>
>
>
>Hmmm... Configuration can't be all THAT bad considering it's very
>widespread use. Found in just about every receiver I have (30+)
>from Collins to 30's Hallicrafters and military. Never noticed any
>particular intelligibility or distortion problems.....
>
>Dennis D. W7QHO
>Glendale, CA
>
>
>
>*****
>Get fantasy football with free live scoring. Sign up for FanHouse
>Fantasy Football today.
>(http://www.fanhouse.com/fantasyaffair?ncid=aolspr00050000000020)

Mime-Version: 1.0
Message-Id: <p06240804c4b8f309bfe2@[192.168.1.2]>
Date: Fri, 1 Aug 2008 10:12:34 -0700
To: Old Tube Radios <boatanchors@theporch.com>
From: Scott Robinson <spr@earthlink.net>
Subject: Re: R-390A audio mod ID
Content-Type: text/plain; charset="us-ascii" ; format="flowed"

Hi,

Ah-AH! You have confused the output transformer primary impedance with the output impedance of the tube feeding it, and they aren't the same thing.

The transformer impedance is chosen for best power output. The maximum power transfer theorem (source impedance = load impedance for max power in the load) does not describe a constant current source such as a pentode output. A 6V6 has a plate resistance of 50K or more, yet the recommended load is 5K.

I can talk more about this; ask if you're interested. It's the 50K source/5K load ratio that I'm objecting to. Speakers perform best with a very low source impedance, which is why without feedback triodes, with their much lower plate resistances, sound better.

Regards,

Scott

>And besides that, the output impedance is whatever you or the designer choose
>to make it. Has nothing to do with single-ended versus push-pull, pentode
>versus beam-tetrode versus triode, etc.. Certainly, if you hook a 4 ohm VC
>speaker up to a receiver with 4000 or 600 ohm output you aren't
>going to like the
>results. It doesn't matter whether the line is driven by a small single-ended
>pentode or push-pull 304-TL's..

>

>In a message dated 8/1/2008 10:50:34 AM Central Daylight Time, W7QH0@aol.com
>writes:

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>> >drive a speaker that tubes can provide. The distortion is high,
>> >which reduces intelligibility, and the output impedance is high,
>> >which make the speaker behave badly.

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>>

>> Hmmm... Configuration can't be all THAT bad considering it's very
>> widespread use. Found in just about every receiver I have (30+) from
>> Collins to 30's
>> Hallicrafters and military. Never noticed any particular intelligibility or
>> distortion problems.....

>>

>

>Robert Downs - Houston
>wa5cab dot com (Web Store)
>MVPA 9480

Date: Fri, 01 Aug 2008 15:57:19 -0400
From: "Nick England" <nick@3rdtech.com>
Subject: March 1950 "Electronics" magazine?
To: Old Tube Radios <boatanchors@theporch.com>
Message-id: <03f901c8f410\$ce95ff90\$fd0212ac@Heathkit2>
MIME-version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7bit

Anyone got a copy of March 1950 issue of "Electronics", and could scan or
make a copy of pp. 70-73?

That's an article on the AN/FRT-5 and AN/FRT-6 Navy transmitters that I'd
like to look at.

thanks,

Nick KD4CPL

www.virhistory.com/navy

Date: Fri, 01 Aug 2008 17:28:24 -0400
From: "Nick England" <nick@3rdtech.com>
Subject: molded mica transmitting cap needed
To: Old Tube Radios <boatanchors@theporch.com>
Message-id: <043c01c8f41d\$896c6370\$fd0212ac@Heathkit2>
MIME-version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7bit

I need to replace a 130pF, 3kv molded mica transmitting cap in my Navy URT-3 xmtr.

That's 130 mmfd or 0.000130 mfd in vintage parlance - well it was before all that wax leaked out. See

<http://www.virhistory.com/navy/xmtrs/urt3-12/p1010023.jpg>

Space is really tight so I would really like to find a direct replacement.

Case style CM65 or F1 - Sprague p/n CM65B131J

This is approx 1.5" tall, approx 2" long, approx 1" wide unit that mounts with ears on the base and has 6-32 studs on the top for connections.

Many thanks!

Nick KD4CPL

(figured I'd ask here before resorting to \$urplus \$ales)

p.s while I'm asking you to root around in your junk box, please let me know if you come across a couple of 50K, 86 watt cartridge-type resistors - military p/n RW12F503WL

Message-ID: <066c01c8f42e\$921016a0\$6401a8c0@reloaded>
From: "Al Parker" <anchor@ec.rr.com>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: molded mica transmitting cap needed
Date: Fri, 1 Aug 2008 19:30:22 -0400
MIME-Version: 1.0
Content-Type: text/plain;
 format=flowed;
 charset="iso-8859-1";
 reply-type=original
Content-Transfer-Encoding: 7bit

Hi Nick,

I've got a few of what (IIRC) looks like those. I'll get a look tonite (hopefully) to see if they're what you need.

73,

Al, W8UT

New Bern, NC

www.boatanchors.org

www.hammarlund.info

"there is nothing -absolutely nothing- half as much worth doing as simply messing about in boats."

Ratty, to Mole

----- Original Message -----

From: "Nick England" <nick@3rdtech.com>
To: "Old Tube Radios" <boatanchors@theporch.com>
Sent: Friday, August 01, 2008 5:28 PM
Subject: molded mica transmitting cap needed

>I need to replace a 130pF, 3kv molded mica transmitting cap in my Navy
>URT-3
> xmtr.
> That's 130 mmfd or 0.000130 mfd in vintage parlance - well it was before
> all
> that wax leaked out. See
> <http://www.virhistory.com/navy/xmtrs/urt3-12/p1010023.jpg>
>
> Space is really tight so I would really like to find a direct replacement.
> Case style CM65 or F1 - Sprague p/n CM65B131J
> This is approx 1.5" tall, approx 2" long, approx 1" wide unit that mounts
> with ears on the base and has 6-32 studs on the top for connections.
>
> Many thanks!
> Nick KD4CPL
> (figured I'd ask here before resorting to Surplus Sales)
>
> p.s while I'm asking you to root around in your junk box, please let me
> know
> if you come across a couple of 50K, 86 watt cartridge-type resistors -
> military p/n RW12F503WL
>
>

Message-ID: <380-2200880384553437@earthlink.net>
From: "Art Lebermann" <artleb@earthlink.net>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Looking for a Heathkit DX-60
Date: Sun, 3 Aug 2008 01:45:53 -0700
MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII

After adding up all the votes from our "Best Low-Power CW Rig" discussion, I've decided to look for a Heathkit DX-60. I have the matching HG-10 VFO, so this partly explains my interest. If anyone has a DX-60 (or the A or B version) they would consider selling, please contact me off-list.

Thanks!

73,
Art Lebermann
W6REQ
artleb@earthlink.net

Message-ID: <000501c8f5ad\$e109c3c0\$56fc834b@gateway>
From: "Sandy" <ebjr37@charter.net>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Need some info on Collins Antenna tuner..
Date: Sun, 3 Aug 2008 16:14:12 -0500
MIME-Version: 1.0
Content-Type: text/plain;
 format=flowed;
 charset="iso-8859-1";
 reply-type=original
Content-Transfer-Encoding: 7bit

Looking for specs and schematic on a Collins 180U-2 antenna coupler unit.
Anybody have any info out there?

73,

Sandy W5TVW

From: "Mikhael Brown" <mikhael@brown.org>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: US Heavy Bombers
Date: Sun, 3 Aug 2008 15:02:46 -0700
Message-ID: <00ae01c8f5b4\$aa5429e0\$6606a8c0@Mikhael>
MIME-Version: 1.0
Content-Type: multipart/mixed;
 boundary="-----_NextPart_000_00AF_01C8F579.FDF551E0"

This is a multi-part message in MIME format.

-----_NextPart_000_00AF_01C8F579.FDF551E0
Content-Type: text/plain;

charset="US-ASCII"
Content-Transfer-Encoding: 7bit

Thought you may enjoy this slide show.

<http://www.youtube.com/watch?v=kupeRS6h1R8>

-----=_NextPart_000_00AF_01C8F579.FDF551E0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

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*      ---REMAINDER OF MESSAGE TRUNCATED---      *
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```

-----=_NextPart_000_00AF_01C8F579.FDF551E0--

Message-ID: <48962CFE.1050503@charter.net>
Date: Sun, 03 Aug 2008 17:11:10 -0500
From: GDM <lgdm3@charter.net>
MIME-Version: 1.0
To: Old Tube Radios <boatanchors@theporch.com>
CC: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: US Heavy Bombers
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit

Huh? Nice pictures of the Badlands, but no airplanes.

W90AK

Mikhael Brown wrote:
> Thought you may enjoy this slide show.

>
>
>
> <http://www.youtube.com/watch?v=kupeRS6h1R8>
>
>
>
>
>
>
>
>
> No virus found in this incoming message.
> Checked by AVG - <http://www.avg.com>
> Version: 8.0.138 / Virus Database: 270.5.12/1589 - Release Date: 8/3/2008 1:00 PM

>
>
>
> -----
>
> * * * * *
> * ---REMAINDER OF MESSAGE TRUNCATED--- *
> * This post contains a forbidden message format *
> * (such as an attached file, a v-card, HTML formatting) *
> * Mail Lists at theporch.com only accept PLAIN TEXT *
> * If your postings display this message your mail program *
> * is not set to send PLAIN TEXT ONLY and needs adjusting *
> * * * * *

From: "Mikhael Brown" <mikhael@brown.org>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: US Heavy Bombers
Date: Sun, 3 Aug 2008 15:13:00 -0700
Message-ID: <00b801c8f5b6\$17e696e0\$6606a8c0@Mikhael>
MIME-Version: 1.0
Content-Type: multipart/mixed;
boundary="-----=_NextPart_000_00B9_01C8F57B.6B87BEE0"

This is a multi-part message in MIME format.

-----=_NextPart_000_00B9_01C8F57B.6B87BEE0
Content-Type: text/plain;
charset="US-ASCII"
Content-Transfer-Encoding: 7bit

Sorry sent the wrong link. LOL

Thought you may enjoy this slide show.

<http://www.youtube.com/watch?v=EPoD4YymVIA>

-----=_NextPart_000_00B9_01C8F57B.6B87BEE0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

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* * * * *
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-----=_NextPart_000_00B9_01C8F57B.6B87BEE0--

Message-ID: <004e01c8f6a2\$96c029d0\$05fea8c0@wilsonspc>
From: "Wilson Lamb" <infomet@embarqmail.com>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Collins Oscillator
Date: Mon, 4 Aug 2008 22:25:54 -0400
MIME-Version: 1.0
Content-Type: text/plain;
format=flowed;
charset="iso-8859-1";
reply-type=original
Content-Transfer-Encoding: 7bit

I have a 30E-1 PT0 and schematics showing the 30E-8 in my 310-B exciter.

Does anyone know the difference in the two? I'm thinking the -1 is the same pinout, tube, and voltages, but don't know. Can anyone tell me more about the -1 unit?

Thanks,
WL

Date: Tue, 05 Aug 2008 10:06:06 -0400
From: "Nick England" <nick@3rdtech.com>
Subject: Shelby hamfest -boatanchor central
To: Old Tube Radios <boatanchors@theporch.com>
Message-id: <009201c8f704\$6765bdf0\$fd0212ac@Heathkit2>
MIME-version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7bit

Just over 3 weeks away -
The Shelby NC hamfest is one of the largest and oldest hamfests and attracts boatanchor enthusiasts from across the eastern US. This year it has moved a few miles up I-85 to Dallas, NC.
Info at <http://www.shelbyhamfest.com/hamfest.htm>

A gang of us will be hanging out at the BOATANCHORS!! banner as usual - set up Thursday Aug 28
through Saturday Aug 30 (some folks stay through Sunday).

Looking forward to seeing you there and swapping gear and tall tales. I plan to bring an NC-300, SX-62, bunch of Halli and National speakers, and other vintage stuff to sell/trade. I'm particularly interested in Navy gear from the 1950's-60's.
Let's hear from other folks who are going.

73 & Have Fun,
Nick KD4CPL
www.virhistory.com/navy

Date: Tue, 05 Aug 2008 16:43:25 -0400
To: Old Tube Radios <boatanchors@theporch.com>
From: John Dilks K2TQN <oldradio@worldnet.att.net>
Subject: Re: Shelby hamfest -boatanchor central - Anybody from Southern NJ going?
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed
Message-Id: <20080805204741.AE9A210AF56@srvr1.theporch.com>

Anybody from Southern NJ going?

I have a Navy receiver and TTY converter I want to send down to Nick England.

73, John Dilks, K2TQN

At 10:06 AM 8/5/2008, Nick England wrote:

>Just over 3 weeks away -

>The Shelby NC hamfest is one of the largest and oldest hamfests and attracts

>boatanchor enthusiasts from across the eastern US. This year it has moved a

>few miles up I-85 to Dallas, NC.

>Info at <http://www.shelbyhamfest.com/hamfest.htm>

Message-ID: <4bc9f60a0808061114n57c544d3jcfa51526f8d49d6c@mail.gmail.com>

Date: Wed, 6 Aug 2008 13:14:34 -0500

From: "Don Reaves W5OR WD2XSH/15" <donreaves@gmail.com>

To: Old Tube Radios <boatanchors@theporch.com>

Subject: Re: Collins Oscillator

Cc: "Old Tube Radios" <boatanchors@theporch.com>

MIME-Version: 1.0

Content-Type: multipart/alternative;

boundary="-----=_Part_6611_16329001.1218046474049"

-----=_Part_6611_16329001.1218046474049

Content-Type: text/plain; charset=ISO-8859-1

Content-Transfer-Encoding: 7bit

Content-Disposition: inline

Type, Range, Fil, B+, Turns, Use,,,Collins Part#

70E-1, 1.0-1.5, 12.6, 250, 10, ARC-2,,, 502 1206 003

70E-8, 2.0-3.0, 6.3, 250, 10, 32V3 early models,,,

70E-8A, 1.6-2.0, 6.3, 180, 16, 310B, 32V3-later models,,, 503 5049 003

70E-8B, 1.6-2.0, 6.3, 250, 16, 310C,,,503 0022 003

Full list at <http://militaryradio.com/pto.html>

On Mon, Aug 4, 2008 at 9:25 PM, Wilson Lamb <infomet@embarqmail.com> wrote:

> I have a 30E-1 PTO and schematics showing the 30E-8 in my 310-B exciter.

> Does anyone know the difference in the two? I'm thinking the -1 is the

> same pinout, tube, and voltages, but don't know. Can anyone tell me more

> about the -1 unit?

> Thanks,

> WL

>

-----=_Part_6611_16329001.1218046474049

Content-Type: text/plain; charset=us-ascii

Content-Transfer-Encoding: 7bit

```
* * * * *
*      ---REMAINDER OF MESSAGE TRUNCATED---      *
*      This post contains a forbidden message format      *
*      (such as an attached file, a v-card, HTML formatting) *
*      Mail Lists at theporch.com only accept PLAIN TEXT      *
*      If your postings display this message your mail program *
*      is not set to send PLAIN TEXT ONLY and needs adjusting *
* * * * *
```

-----=_Part_6611_16329001.1218046474049--

Message-Id: <5.2.1.1.1.20080806220822.020d78d0@pop.gmail.com>
Date: Wed, 06 Aug 2008 22:15:22 +0200
To: Old Tube Radios <boatanchors@theporch.com>
From: "Jose V. Gavila" <eb5agv@amsat.org>
Subject: Fwd: help
Mime-Version: 1.0
Content-Type: multipart/mixed; x-avg-checked=avg-ok-2C2F6121;
boundary="=====AVGMAIL-489A066B736D====="

--=====AVGMAIL-489A066B736D=====

Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

```
* * * * *
*      ---REMAINDER OF MESSAGE TRUNCATED---      *
*      This post contains a forbidden message format      *
*      (such as an attached file, a v-card, HTML formatting) *
*      Mail Lists at theporch.com only accept PLAIN TEXT      *
*      If your postings display this message your mail program *
*      is not set to send PLAIN TEXT ONLY and needs adjusting *
* * * * *
```

--=====AVGMAIL-489A066B736D=====--

End of BOATANCHORS Digest 4195
